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STATE OF MONTANA

BULLETIN

OF THE

Department of Public Health

Vol. 5 December 15, 1912 No. 9

MONTANA STATE BOARD OF HEALTH

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- EMIL STARZ, Ph. D., Bacteriologist.

HELENA, MONTANA.

Published Monthly at Helena, by the State Board of Health.

"The science of disease prevention, if properly applied, can add fifteen years to the present average length of human life."—Prof. Irving Fisher, Yale.

This Bulletin will be mailed monthly to any person in Montana upon request mailed to the Secretary of the State Board of Health at Helena.



TO LOCAL AND COUNTY HEALTH OFFICERS.

With the publication of this report the Secretary, T. D. Tuttle, M. D., retires from the State Board of Health. But before doing so I wish to thank the Health Officers of this State, both local and county, for the generous and energetic support that they have given me during the ten years that I have occupied the office of Secretary to the State Board of Health.

At times it has been necessary for me to write or to say unpleasant things to the Health Officers, but almost without exception the Health Officers have taken my remarks or communications in the spirit in which they were intended, to the end that we, and in this I include every local and County Health Officer, are able to show good results.

In the first place we are able to show that during the last three years the number of cases of smallpox in the State have been reduced from 607 to 83, and during these three years the number of cases of scarlet fever have been reduced from 931 to 374, while the deaths have been reduced from 57 to 17 per year.

In regard to diphtheria, the cases reported have been reduced from 485 in 1910, to 99 in 1912, while the deaths have been reduced from 61 in 1910 to 5 in 1912.

In regard to typhoid fever, the cases reported have been reduced from 836 in 1910 to 249 in 1912, while deaths have been reduced from 147 in 1910 to 39 in 1912.

In regard to deaths from enteric diseases in children under two years of age, we show a reduction of from 246 in 1910 to 59 in 1912.

This reduction in deaths from preventable diseases shows the work of energetic health officers throughout the State and while the State Board of Health has done its best in this work, the result could not be accomplished without the honest and energetic efforts of the local and County Health Officers. Therefore, I express my hearty and sincere appreciation of the work performed by the local and County Health Officers of the State of Montana.

DAIRIES.

Name.	Score.	Name.	Score.
CRAIG.		THREE FORKS.	
E. J. Trerise	98	Lund & Batchelder	98
SHERIDAN.		TWIN BRIDGES.	
E. D. Marsh	95	C. O. Dale	96

CONFECTIONERY AND BAKE SHOPS.

Name.	Score.	Name.	Score.
DILLON.		THREE FORKS.	
F. C. McFadden	90	Mestad, E. M.	98
HELENA.		WHITEHALL.	
J. S. Smith	98	Jack Mikesell	95

MEAT MARKETS AND SLAUGHTER HOUSES.

Name.	Score.	Name.	Score.
DILLON.		THREE FORKS.	
J. W. Deputy—Mt. Mk. ..	75	E. W. Roe—Mt. Mk.	90
Montana Market—Mt. Mk.	65	E. W. Roe—Sl. Hs.	93
HELENA.		Three Forks Meat Co—	
Anton Nigey—Mt. Mk. ..	65	Sl. Hs.	88
Chas. Hageman—Mt. Mk.	75	Three Forks Meat Co—	
Helena Meat Co—Mt. Mk.	65	Mt. Mk.	80
Woods & Tongren—Mt. Mk.	65	Frank Pahl—Sl. Hs.	75
LIMA.		Frank Pahl—Mt. Mk.	70
S. W. Vance—Mt. Mk...	79	VIRGINIA CITY.	
PONY.		Gohn & Crawford—Sl. Hs.	83
G. S. Hanson—Mt. Mk...	70	Gohn & Crawford—Mt. Mk.	85
SHERIDAN.		WHITEHALL.	
Hagenburger Bros—Sl. Hs.	68	E. M. Lyons—Mt. Mk. ..	80
Hagenburger Bros—Mt. Mk.	79		

HOTELS AND RESTAURANTS.

Name.	Score.	Name.	Score.
ALDER.		PONY.	
A. H. Walker	89	Mrs. M. Stevens	98
DILLON.		A. P. McIver	98
Jack Goodall	87	Ng Tai	82
Jack Goodall	72	SHERIDAN.	
Sam Lung	84	Maud O'Dell	95
E. Leistikow	98	L. C. Edwards	95
Metlen Hotel	98	THREE FORKS.	
HELENA.		Interstate News Co.	85
Clara Fox	98	W. E. Dimrock	86
Frank J. Roroff	99	C. A. Barrough	100
Fred R. Munger	93	Mrs. A. H. Smith	93
Marshall Graham	90	Joe Lee	80
T. C. Fleischer	85	TWIN BRIDGES.	
Carl E. Weiss	73	Mrs. Mary Galahan	81
W. D. Miller	71	Mrs. Mary Lappin	86
Weiss & Melhorn	100	Mrs. L. B. Pickett	100
O'Connell & Gallivan ..	100	Ah Chung	73
Wong Yuen	98	VIRGINIA CITY.	
Geo Mincheff	75	Mrs. W. A. Stevenson	86
Henry Rossman	92	Richarl Peel	66
Styneberg & Olson	82	Frank McKeen	100
D. Hobbs	88	WHITEHALL.	
Jchn Mattie	84	Schneider & Mathey	86
LIMA.		Mrs. Henry Schmidt	92
Tom Yoshikarn	84	D. P. Lake	96
Tom Yoshikarn	73	L. Eorden	
A. S. Beardsley	99		

MILK ANALYSIS.					
Dealer.	Address.	Total Solids (%)	Fat. (%)	Remarks.	
Oxford Cafeteria	Bozeman	10.98	1.95	Low in fat.	
J. Edwards	Bozeman	14.36	4.70	Standard.	
Bragg & Carlson	Bozeman	12.42	3.25	Standard.	
Treveler's Cafe	Bozeman	13.40	3.65	Standard.	
City Restaurant	Bozeman	.....	2.00	Analysis incomplete.
International Cafe	Bozeman	14.89	5.80	Standard.	
The Bungalow	Bozeman	16.24	7.80	Standard.	
John D. Evans	Dillon	.....	.....	Analysis incomplete.
John B. Smith	Dillon	13.60	4.80	Standard.	
J. E. Goodall	Dillon	13.04	3.90	Standard.	
W. E. Ambrose	Dillon	12.84	4.00	Standard.	
Anton Jackson	Dillon	13.25	3.50	Standard.	
Karl Goetze	Glendive	12.11	3.00	Low in fat.	
Murosaki & Takurina	Glendive	11.89	2.50	Low in fat.	
N. F. Lunch Counter	Glendive	13.98	5.05	Standard.	
Lillian Edles	Glendive	12.67	4.90	Standard.	
John Albertson	Glendive	14.04	4.70	Standard.	
J. Kotaki	Glendive	12.27	3.30	Standard.	
Joe Rock	Glendive	.....	.....	Sample bottle broken.
Wm. Burton	Helena	12.80	3.95	Standard.	
Harry Burgess	Helena	12.80	4.00	Standard.	
L. McKinney	Helena	13.07	4.30	Standard.	
L. A. Ramsey	Helena	13.09	3.70	Standard.	
H. McLaughlin	Helena	15.68	6.00	Standard.	
J. L. Bompart	Helena	13.14	4.00	Standard.	
O. K. Salsoun	Helena	12.77	3.90	Standard.	
S. J. Burgess	Helena	13.31	4.20	Standard.	
W. C. Snyder	Helena	12.90	3.65	Standard.	
Montana Cafe	Kalispell	12.59	3.50	Standard.	
Chas. Hanbow	Kalispell	13.52	4.10	Standard.	
L. Lack	Kalispell	13.31	4.20	Standard.	
C. I. Vantassel	Kalispell	13.88	4.80	Standard.	
T. Nicolesco	Kalispell	13.15	4.05	Standard.	
W. B. Baggett	Polson	13.69	5.00	Standard.	
Melvin & Porpenfuss	Polson	13.57	4.50	Standard.	
Clara Hever	Polson	13.95	4.90	Standard.	
Albert Hepp	Polson	13.61	9.00	Standard.	
E. W. Marsh	Sheridan	14.07	4.20	Standard.	
Luad & Batchelder	Three Forks	12.55	3.70	Standard.	
Mrs. C. M. Wilson	Three Forks	13.67	4.10	Standard.	
C. O. Dale	Twin Bridges	13.11	4.10	Standard.	
M. A. Galahan	Twin Bridges	12.89	3.75	Standard.	
L. Borden	Whitehall	13.80	3.45	Standard.	
Schmider & Mathey	Whitehall	13.11	4.00	Standard.	
Mrs. Henry Schmidt	Whitehall	15.18	5.50	Standard.	
W. P. Lake	Whitehall	14.57	4.55	Standard.	

SOFT DRINKS.

Dealer.	Address.	Kind.	Remarks.
Ponsfords, Wholesale	Bozeman	Lemon Soda	Standard.
Liquor Store	Bozeman	Ginger Ale	Standard.
Ponsfords Liquor Store	Bozeman	Lemon Soda	Standard.
Latta Liquor Store	Bozeman	Ginger Ale	Standard.
J. K. Caras	Missoula	Cream Soda	Standard.
Leo Solomon	Missoula	Ginger Ale	Standard.
Murphy Burke	Missoula	Lemon Soda	Standard.
C. L. Rankin	Glendive	Soda Pop	Standard.

LARD ANALYSIS.

Dealer.	Address.	Remarks.
Dowdle & Walters	Bridger	Standard.
Harpster Bros.	Glendive	Standard.
City Meat Market	Glendive	Standard.
M. R. McDonald	Roundup	Standard.
L. C. Heicksen	Columbus	Standard.

CREAM ANALYSIS.

Dealer.	Address.	Total Solids (%)	Fat. (%)	Remarks.
J. Edwards	Bozeman	.....	.....	.....
N. P. Lunch Counter	Glendive	.....	11.0	Low in fat.
Joe Rock	Glendive	.....	27.0	Low in fat.
Harry Burgess	Helena	.....	20.0	Standard.
L. McKinney	Helena	.....	28.0	Standard.
L. A. Ramsey	Helena	.....	27.8	Standard.
H. McLaughlin	Helena	.....	33.0	Standard.
J. L. Bompart	Helena	.....	24.3	Standard.
W. C. Snyder	Helena	.....	25.2	Standard.
D. O. Lager	Helena	.....	23.7	Standard.
Wm Burton	Helena	.....	30.0	Standard.
Lund & Batchelder	Three Forks	.....	20.3	Standard.
C. O. Dale	Twin Bridges	.....	33.4	Standard.

ICE CREAM ANALYSIS.

Dealer.	Address.	Kind.	Fat. (%)	Remarks.
The Bungalow	Bozeman	.....	18.0	Standard.
The Palmo	Bozeman	.....	14.5	Standard.
Vienna Bakery	Bozeman	.....	11.0	Low in fat.
R. E. Foster	Dillon	.....	14.6	Standard.
F. C. McFadden	Dillon	.....	15.2	Standard.
Candy Kitchen	Glendive	.....	16.5	Standard.
Gamer Candy Co.	Helena	.....Strawberry	13.1	Standard.

COMMUNICABLE DISEASES REPORTED TO STATE
BOARD OF HEALTH FOR THE MONTH OF
NOVEMBER, 1912.

SMALLPOX—Cases of Smallpox were reported as follows: Beaverhead, 1; Custer, 12; Great Falls, 1; Fergus, 1; Missoula City, 1; Musselshell, 1; Powell, 2; Butte, 1; total, 20. Total last month, 8; total November, 1911, 16.

DIPHTHERIA—Cases of Diphtheria were reported as follows: Great Falls, 1; Custer, 2; Anaconda, 1; Hill, 1; Helena, 4; Livingston, 1; Silver Bow (Excl. of Butte), 1; Butte, 5; Yellowstone (Excl. of Billings), 2; Billings, 1; total, 19. Total last month, 11; total November, 1911, 30.

SCARLET FEVER—Cases of Scarlet Fever were reported as follows: Great Falls, 1; Fergus, 2; Lewis and Clark (Excl. of Helena), 1; Madison, 1; Missoula City, 3; Park, 2; Powell, 1; Silver Bow (Excl. of Butte), 4; Butte, 13; Yellowstone (Excl. of Billings), 1; Billings, 1; total, 30. Total last month, 20; total November, 1911, 30.

TYPHOID FEVER—Cases of Typhoid were reported as follows: Blaine, 1; Broadwater, 1; Carbon, 1; Great Falls, 2; Dawson, 2; Fergus, 8; Kalispell, 2; Gallatin, 1; Hill, 1; Lewis and Clark (Excl. of Helena), 1; Helena, 1; Madison, 2; Park, 1; Rosebud, 2; Billings, 2; total, 28. Total last month, 42; total November, 1911, 41.

MEASLES—Cases of Measles were reported as follows: Anaconda, 1; Madison, 8; Butte, 1; Yellowstone (Excl. of Billings), 1; Billings, 9; total, 20. Total last month, 6; total November, 1911, 8.

**DEATHS (EXCLUSIVE OF STILLBIRTHS) REPORTED TO THE STATE
BOARD OF HEALTH FOR THE MONTH OF NOVEMBER, 1912,
ARRANGED ACCORDING TO COUNTIES AND CITIES.**

	Totals	All Other Causes	Alcoholism	Suicide	Violence	Acute Intestinal Diseases	Malignant Tumors	Organic Heart Disease	Nephritis	Pneumonia	Whooping Cough	Meningitis	Typhoid Fever	Measles	Scarlet Fever	Diphtheria	Tuberculosis	Small Pox	Spotted Fever
Beaverhead	1					1													
Broadwater	1								1										
Carbon	5	2		1	1	1													
Cascade (Excl. of)	3	1							1						1				
Great Falls	20	7			1	1			1	5	1				1				
Chouteau																			
Custer	10	2	1		2	1			1						1				
Dawson	12	6			2	1							1						
Deer Lodge (Excl. of)	4	3													1				
Anaconda	14	4	2	1		1													
Fergus	15	6			3				2	2					1				
Flathead (Excl. of)	3				1														
Kallispell	5	1			1				1										
Gallatin (Excl. of)	10	8			1	1													
Bozeman	6	1							1				1						
Granite	4	2							1										
Jefferson	4	1			3														
Lewis and Clark (Excl. of)																			
Helena	23	9			1				3	2					5				
Lincoln	5	1			1					2									
Madison	6	2	1						1						1				
Meagher	5				1				1	3									
Missoula (Excl. of)	9	5			1				1										
Missoula City	13	7			2	1			1	1					1				
Musselshell	5				1	1			2				1						
Park (Excl. of)	4	1			1				1										
Livingston	3	2			1				1										
Powell	5	2			1				1						1				
Ravalli	6	1			3	1													
Rosebud	5	2			1										2				
Sanders	5	3							1										
Silver Bow (Excl. of)	15	2			2	2			1	2					4				
Butte	55	15	2	2	7	2	2	2	6	1					13				
Sweet Grass	5	1							2	1									
Teton	11	3			1				3	3									
Valley	8	1							2	1									
Yellowstone (Excl. of)	23	8			1				3						7	2			
Billings	14	4		1	1	1			1	1			1		1				
Blaine	4	1													1				
Hill	10	2			3	1									2				
TOTALS	356	121	8	9	46	12	11	27	17	53	5	4	4	1	3	7	44		

BIRTHS REPORTED TO THE STATE BOARD OF HEALTH FOR
THE MONTH OF NOVEMBER, 1912, AND COMPARA-
IVE BIRTH AND DEATH RECORD IN THE
STATE.

	Males	Females	Totals	Deaths	Excess of births	Excess of deaths
Beaverhead	4	1	5	1	4	..
Broadwater	3	1	4	1	3	..
Carbon	19	12	31	5	26	..
Cascade (Excl. of)	9	4	13	3	10	..
Great Falls	27	22	49	20	29	..
Chouteau	3	6	9	..	9	..
Custer	10	6	16	10	6	..
Dawson	19	15	34	12	22	..
Deer Lodge (Excl. of) .....	..	..	..	4	..	4
Anaconda	9	16	25	14	11	..
Fergus	16	15	31	15	16	..
Flathead (Excl. of)	8	5	13	3	10	..
Kalispell	7	3	10	5	5	..
Gallatin (Excl. of)	7	11	18	10	8	..
Bozeman	6	9	15	6	9	..
Granite .....	..	2	2	4	..	2
Jefferson	1	2	3	4	..	1
Lewis and Clark (Excl. of)	8	6	14	..	14	..
Helena	11	6	17	23	..	6
Lincoln	7	4	11	5	6	..
Madison	9	4	13	6	7	..
Meagher	7	7	14	5	9	..
Missoula (Excl. of)	6	7	13	9	4	..
Missoula City	12	15	27	13	14	..
Musselshell	9	9	18	5	13	..
Park (Excl. of)	2	2	5	4	1	..
Livingston	4	2	6	3	3	..
Powell	1	3	4	5	..	1
Ravalli	3	5	8	6	2	..
Rosebud	6	2	8	5	3	..
Sanders	5	5	10	5	5	..
Silver Bow (Excl. of)	18	17	35	15	20	..
Butte	41	34	75	55	20	..
Sweet Grass	7	1	8	5	3	..
Teton	18	10	28	11	17	..
Valley	21	17	38	8	30	..
Yellowstone	13	14	27	23	4	..
Billings	13	8	21	14	7	..
Blaine	1	4	5	4	1	..
Hill	8	10	18	10	8	..
TOTALS	379	322	701	356	359	14

Estimated Population 393,000
Monthly Death Rate per 1,000 population90
Annual Death Rate Per 1,000 population 10.80